

WHAT IS CLAIMED IS:

1. A glazing panel comprising:

a vitreous substrate; and

5 at least one coating layer which is provided on the vitreous substrate which is one of pyrolytically formed by chemical vapor deposition or a spray-formed pyrolytically, said coating layer consisting essentially of tin and antimony in a Sb/Sn molar ratio of up to 0.14, and,

10 whereby the glazing panel has one of:

(a) a solar factor (FS) of less than 70% or

(b) a luminous transmittance (TL) of less than 35% and a selectivity (TL/TE) of

15 at least 1.3.

2. A glazing panel comprising:

a vitreous substrate; and

20 at least one coating layer which is provided on the vitreous substrate which is pyrolytically formed by chemical vapor deposition, said coating layer consisting essentially of tin and antimony in a Sb/Sn molar ratio of from 0.01 to 0.14, and,

whereby the glazing panel has a solar factor (FS) of less than 70%.

3. The glazing panel according to claim 2, wherein the Sb/Sn molar ratio is at least 0.03.

4. The glazing panel according to claim 3, wherein the Sb/Sn molar ratio is
5 at least 0.05.

5. The glazing panel according to claim 2, wherein the Sb/Sn molar ratio ranges between 0.01 and 0.12.

6. The glazing panel according to claim 5, wherein the Sb/Sn molar ratio ranges between 0.03 and 0.07.

7. The glazing panel according to claim 2, further comprising an intermediate haze-reducing coating layer positioned between the vitreous substrate and the tin/antimony oxide coating layer.

8. The glazing panel according to claim 7, wherein the intermediate haze-reducing coating layer comprises silicon oxide

9. The glazing panel according to claim 2, wherein the solar factor is less than 60%.

10. The glazing panel according to claim 9, wherein the solar factor is less than 50%.

5 11. The glazing panel according to claim 2, wherein the glazing panel has a luminous transmittance (TL) ranging from 40 to 65%.

12. The glazing panel according to claim 2, wherein the tin/antimony oxide coating has a thickness of ranging from 100 to 500 nm.

13. The glazing panel according to claim 12, wherein the tin/antimony oxide coating layer has a thickness ranging from 250 to 450 nm.

14. The glazing panel according to claim 2, wherein the tin/antimony oxide layer coating layer is an exposed coating layer.

20 15. The glazing panel according to claim 2, comprising only one said tin/antimony oxide coating layer.

16. A glazing panel comprising:
a vitreous substrate; and
a coating layer which is provided on the vitreous substrate, said coating layer
comprising a single layer of tin oxide doped with antimony which is pyrolytically
5 formed by chemical vapor deposition, the single layer of tin doped with antimony
consisting essentially of tin and antimony in a Sb/Sn molar ratio of from 0.01 to 0.14
and,
whereby the glazing panel has a solar factor (FS) of less than 70%.

10 17. The glazing panel according to claim 16, further comprising an
intermediate haze-reducing layer positioned between the vitreous substrate and the single
layer of tin oxide doped with antimony.

15 18. A glazing panel comprising:
a vitreous substrate; and
a spray-formed pyrolytic tin/antimony oxide coating layer which is provided on
the vitreous substrate, which has a thickness of at least 400 nm and which consists
essentially of tin and antimony in a Sb/Sn molar ratio of from 0.05 to 0.14
20 wherein the glazing panel has a luminous transmittance (TL) of less than 35%
and a selectivity (TL/TE) of at least 1.3.

19. The glazing panel according to claim 18, wherein the vitreous substrate is made of colored glass.

5 20. The glazing panel according to claim 18, wherein the tin/antimony oxide coating has a thickness ranging from 400 nm to 800nm.

10 21. The glazing panel according to claim 18, wherein the tin/antimony oxide coating has a thickness ranging from 450 nm to 700nm.

15 22. The glazing panel according to claim 18, wherein the glazing panel has a selectivity of at least 1.5.

23. The glazing panel according to claim 18, wherein the glazing panel has an energy transmission factor (TE) of less than 15%.

22. The glazing panel according to claim 18, wherein the glazing panel has an energy transmission (TE) of less than 10%.

23. A glazing panel according to claim 18, wherein the Sb/Sn molar ratio ranges from 0.08 to 0.14.

24. The glazing panel according to claim 18, wherein the spray-formed pyrolytic tin/antimony oxide coating layer is a single layer.

5 25. The glazing panel according to claim 18, wherein the spray-formed pyrolytic tin/antimony oxide coating layer is an exposed coating layer.

10 26. The glazing panel according to claim 18, wherein the glazing panel has a reflectivity of visible light (RL) which is lower than 12%

15 27. A solar protection glazing panel comprising:
a vitreous substrate; and
a coating layer provided on the vitreous substrate which comprises a single layer of tin oxide doped with antimony,

wherein said single layer of tin oxide doped with antimony is pyrolytically formed by spraying a liquid precursor solution, has a thickness of at least 400 nm and consists essentially of tin and antimony in a Sb/Sn molar ratio of from 0.05 to 0.14

and wherein the glazing panel has a luminous transmittance (TL) of less than 35% and a selectivity (TL/TE) of at least 1.3.

28. The solar protection glazing panel according to claim 26, further
5 comprising an intermediate haze-reducing layer positioned between the vitreous substrate and the single layer of tin oxide doped with antimony.

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